CLAIMS:

1. A thiazole derivative represented by the formula

$$R^2 \stackrel{X^2 \cdot X^1}{\longrightarrow} A - R^1$$

or a pharmaceutically acceptable salt thereof, wherein:

 $X^1$  and  $X^2$  are different from each other and represent a sulfur atom or a carbon atom;  $R^1$  represents a phenyl group;

a phenyl group substituted with 1 to 5 members selected from the group consisting of halogen atoms, alkyl groups having 1 to 6 carbon atoms, alkoxy groups having 1 to 6 carbon atoms, a hydroxy group, phenylalkoxy groups having 7 to 12 carbon atoms, and alkylamino groups having 1 to 6 carbon atoms;

a phenyl group condensed with a 5 to 7 membered hetero aromatic or non-aromatic ring having at least one hetero atom selected from the group consisting of N, O, and S;

- a pyridyl group;
- a quinolyl group;
- an isoquinolyl group; or
- a pyridyl group condensed with a 5 to 7 membered hetero aromatic ring having at least one hetero atom selected from the group consisting of N, O,

and S;

R<sup>2</sup> represents a hydrogen atom, a halogen atom, an alkyl group having 1 to 6 carbon atoms, an alkyl group having 1 to 6 carbon atoms substituted with 1 to 5 halogen atoms, an alkoxy group having 1 to 6 carbon atoms, an alkanoyl group having 1 to 6 carbon atoms, or a hydroxyalkyl group having 1 to 5 carbon atoms; and A represents a group which is represented by the formula

$$R^3$$

or

wherein:

R<sup>3</sup> represents a hydrogen atom;

a hydroxy group;

an alkyl group having 1 to 6 carbon atoms;

a phenylalkyl group having 7 to 12 carbon atoms; or

a phenylalkyl group having 7 to 12 carbon atoms, substituted with a hydroxy group, an alkoxy group having 1 to 6 carbon atoms, an alkoxy group

having 1 to 6 carbon atoms substituted with an alkoxy group having 1 to 6 carbon atoms, or an alkoxy group having 1 to 6 carbon atoms substituted with an alkylamino group having 1 to 6 carbon atoms,

R<sup>4</sup> represents a phenyl group;

a phenyl group substituted with 1 to 5 members selected from the group consisting of halogen atoms, alkyl groups having 1 to 6 carbon atoms, alkoxy groups having 1 to 6 carbon atoms, a carbamoyl group, and a cyano group;

a hydrogen atom;

atoms:

an alkyl group having 1 to 12 carbon atoms; an alkenyl group having 2 to 12 carbon atoms; a cycloalkyl group having 3 to 7 carbon

an alkyl group having 1 to 12 carbon atoms substituted with an alkoxy group having 1 to 6 carbon atoms, a hydroxy group, an alkoxyphenylalkoxy group having 8 to 12 carbon atoms, a phthalimidoyl group, a toluenesulfonyloxy group, or a morpholino group;

an alkyl group having 1 to 6 carbon atoms substituted with 1 to 5 halogen atoms;

a cycloalkyl group having 3 to 9 carbon atoms substituted with an oxo group;

- a tetrahydropyranyl group;
- a 4-piperidinyl group;
- a piperidinyl group substituted with an alkyl group having 1 to 6 carbon atoms or a t-butoxycarbonyl

group;

a cyclohexanespiro-2'-(1,3-dioxoranyl) group;

a pyrrolidin-2-one-5-yl group;

a group represented by the formula  $-Y^1 - Z^1 - NR^5 - Z^2 - Y^2 - R^6$  ,

wherein:

 $Y^1$  and  $Y^2$  are the same or different from each other and represent a single bond or an alkylene group having 1 to 12 carbon atoms;

R<sup>5</sup> represents a hydrogen atom or an alkyl group having 1 to 12 carbon atoms;

 $\mbox{\ensuremath{Z^1}}$  and  $\mbox{\ensuremath{Z^2}}$  are the same or different from each other and represent a single bond;

an alkylene group having 1 to 7 carbon atoms;

-CO-;

 $-CO_2-;$ 

 $-SO_2-;$  or

-0CO-, and

R<sup>6</sup> represents

a cycloalkyl group having 3 to 7 carbon atoms;

an alkyl group having 1 to 6 carbon atoms substituted with 1 to 3 halogen atoms;

an alkenyl group having 2 to 6 carbon atoms; an alkynyl group having 2 to 6 carbon atoms; an amino group;

an amino group substituted with 1 to 2 groups selected from the group consisting of an alkyl group

having 1 to 6 carbon atoms, a cycloalkyl group having 3 to 7 carbon atoms, and a t-butoxycarbonyl group;

- a piperidino group;
- a piperidinyl group;
- a piperidinyl group substituted with an alkyl group having 1 to 6 carbon atoms;
  - a pyrrolidinyl group;
  - a piperazinyl group;
- a piperazinyl group substituted with an alkyl group having 1 to 6 carbon atoms;
  - a morpholino group;
  - a hydroxy group;
  - an alkoxy group having 1 to 6 carbon atoms;
- an alkoxy group having 1 to 6 carbon atoms substituted by a hydroxy group or an alkoxy group having 1 to 6 carbon atoms;
  - an oxetan-2-yl group;
  - a tetrahydrofuranyl group;
  - a tetrahydropyranyl group;
  - a hydrogen atom;
  - a phenyl group;
- a phenyl group substituted with an alkoxy group having 1 to 4 carbon atoms; or
- a group that forms a ring when linked to the nitrogen atom of the above formula; or
  - a group represented by the formula  $-Y^3-CO-R^{41}$ , wherein:
  - ${\rm Y}^{\rm 3}$  represents a single bond or an alkylene

group having 1 to 7 carbon atoms,

R<sup>41</sup> represents

a hydroxy group;

an alkoxy group having 1 to 6 carbon atoms;

a piperidino group;

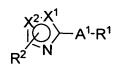
a piperazin-1-yl group substituted by an alkyl group having 1 to 6 carbon atoms, a morpholinoalkyl group having 5 to 10 carbon atoms, or an alkylaminoalkyl group having 2 to 14 carbon atoms; or

a morpholino group.

- 2. The thiazole derivative or a pharmaceutically acceptable salt thereof according to claim 1, wherein  $R^2$  is a hydrogen atom, a halogen atom, an alkyl group having 1 to 6 carbon atoms or an alkyl group having 1 to 6 carbon atoms substituted with 1 to 5 halogen atoms.
- 3. The thiazole derivative or a pharmaceutically acceptable salt thereof according to claim 1, wherein  $\mathbb{R}^2$  is an alkyl group having 1 to 6 carbon atoms or a trifluoromethyl group.
- 4. The thiazole derivative or a pharmaceutically acceptable salt thereof according to claim 1, wherein  $\mathbb{R}^2$  is a methyl group or a trifluoromethyl group.
- 5. The thiazole derivative or a pharmaceutically acceptable salt thereof according to any one of claims 1 to 4, wherein  $\mathbb{R}^1$  is a phenyl group condensed with a 5 to 7 membered hetero aromatic or non-aromatic ring

containing at least one hetero atom selected from the group consisting of N, O, and S.

- 6. The thiazole derivative or a pharmaceutically acceptable salt thereof according to any one of claims 1 to 5, wherein  $X^1$  is a sulfur atom and  $X^2$  is a carbon atom.
- 7. An ALK5 inhibitor having, as an active ingredient, the thiazole derivative or a pharmaceutically acceptable salt thereof according to any one of claims 1 to 6.
- 8. The ALK5 inhibitor according to claim 7, which is a therapeutic agent for glomerulonephritis, diabetic nephropathy, hepatic fibrosis, liver cirrhosis, pulmonary fibrosis, proliferative vitreoretinopathy, or alopeciarosis, or a hair growth agent.
- 9. The ALK5 inhibitor according to claim 7 or 8, which is an external medicine.
- 10. A hair follicle proliferation stimulant, having an ALK5 inhibitor as an active constituent.
- 11. A hair growth stimulant or a hair growth agent, having an ALK5 inhibitor as an active ingredient.
- 12. A thiazole derivative represented by the formula



or a pharmaceutically acceptable salt thereof, wherein:

 $X^1$  and  $X^2$  are different from each other and represent a sulfur atom or a carbon atom;  $R^1$  represents a phenyl group;

a phenyl group substituted by 1 to 5 members selected from the group consisting of halogen atoms, alkyl groups having 1 to 6 carbon atoms, alkoxy groups having 1 to 6 carbon atoms, a hydroxy group, phenylalkoxy groups having 7 to 12 carbon atoms, and alkylamino groups having 1 to 6 carbon atoms;

a phenyl group condensed with a 5 to 7 membered hetero aromatic or non-aromatic ring having at least one hetero atom selected from the group consisting of N, O, and S;

a pyridyl group;

a quinolyl group;

an isoquinolyl group; or

a pyridyl group condensed with a 5 to 7 membered hetero aromatic ring having at least one hetero atom selected from the group consisting of N, O, and S;

R<sup>2</sup> represents a hydrogen atom, a halogen atom, an alkyl group having 1 to 6 carbon atoms, an alkyl group having 1 to 6 carbon atoms substituted with 1 to 5 halogen atoms, an alkoxy group having 1 to 6 carbon atoms, an alkanoyl group having 1 to 6 carbon atoms, or a

hydroxyalkyl group having 1 to 5 carbon atoms; and  ${\bf A}^1$  represents a group which is represented by the formula

$$\overset{\circ}{\longrightarrow}$$
  $\overset{\circ}{\longrightarrow}$   $\overset{\circ}{\longrightarrow}$  or  $\overset{X^3}{\longrightarrow}$   $\overset{\circ}{\bigcirc}$ 

wherein  $X^3$  represents a hydrogen atom, a halogen atom, or an alkyl group having 1 to 6 carbon atoms.